Dance Cube

ORDERCODE 40401

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from Showtec.
The Showtec Dance Cube brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec Dance Cube™ Product Guide

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WARNING

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never run the device without lamp!
- Never ignite the lamp if the objective-lens or any housing-cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- Never look directly into the light source.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the lamp's life.
- If the lamp has been turned OFF, let the lamp cool down for 15 minutes, before turning the lamp ON again.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always replace the lamp, when it is damaged or deformed due to the heat.
- Always keep case closed while operating.

- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used, before cleaning or when replacing lamp! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Dance Cube must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use lamps and fuses of same type and rating only.
- Allow time to cool down, before replacing lamp.
- The user is responsible for correct positioning and operating of the Dance Cube. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 2 meters.

The maximum ambient temperature t_a = 40°C must never be exceeded.

The relative humidity must not exceed 50 % with an ambient temperature of 40° C.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.
You endanger your own safety and the safety of others!

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

Description of the device

Features

The Showtec Dance Cube is an immensely powerful color changer with great effects.

- Control the Dance Cube with the included controller
- Auto mode, Music mode
- Lamp HMI 575 750Hr. Ordercode: 80901O. Lamp included

Overview

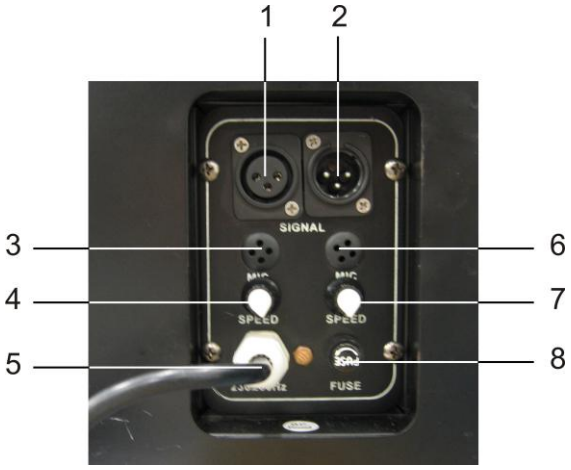


Fig. 1

1) DMX signal connector (OUT)
2) DMX signal connector (IN)
3) Microphone
4) Speed control
5) Power cable
6) Microphone
7) Speed control
8) Fuse F10A / 250V
9) Reset
10) Display
11) Pause
12) Start
13) Select Program
14) Audio
15) Time
16) Speed

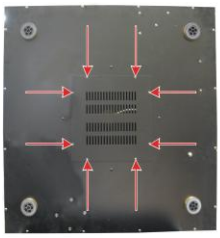
Installation

Installing the Lamp

The Showtec Dance Cube uses the HMI 575 (ordercode 80901O, 80901P, 80901S) bulb as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit.
Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.
Always disconnect from electric mains power supply before changing lamps.
The lamp has to be replaced when it is damaged or deformed due to the heat.
Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.
Damages caused by non-observance are not subject to warranty.

Procedure :

1. Loosen the 8 screws on the housing. Gently remove the metal housing.
2. Loosen the screw on top of the lamp and the power connection.
3. Loosen the 4 screws on the side of the housing.
4. Slide the glass cover to the right side.
5. Slide the rubber (**6**) and metal (**7**) cover to the right side.
8. Loosen the screw of the lamp and the power connection.
9. Carefully remove the old lamp. Read lamp instructions. Do not touch the lamp bulb glass. Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol.). Insert the lamp (**10**).
6. Gently turn the screw to fasten the light bulb.
7. Now do the previous steps in reverse order.



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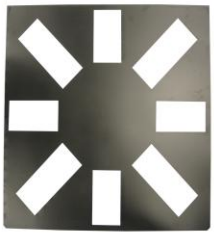

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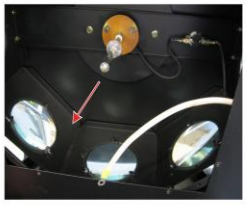

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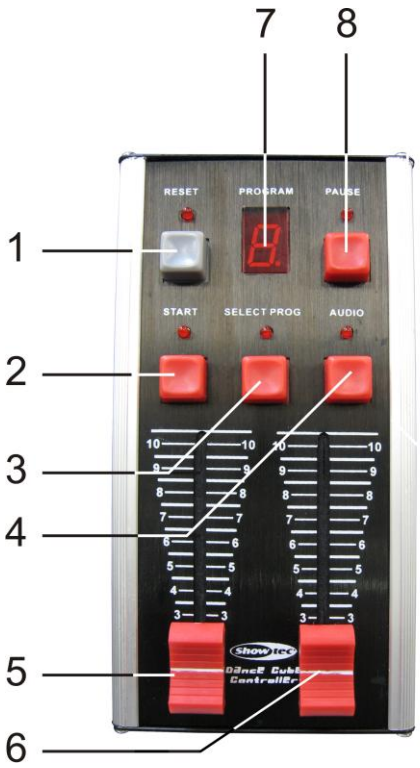
Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

1. Leave at least 1 meter on all sides for air circulation.
2. Plug one end of the electric mains power cord into the socket on the unit.
Then plug the other end of the cord into a proper electric power supply socket.



1) Reset-button: The Dance Cube will reset and start up after 30 seconds
2) Start-button: When you press start during the movement of the mirrors, the display keeps blinking and the device is in standby modus. When you press start again, the lamp will work and the mirrors start moving.
3) Select Programs: Press this button to choose between Program **1-8** or **P**.
P means the Dance Cube will do all built-in programs after each other.
4) Audio-button: When you press this button, a small point will appear in the display and the Dance Cube will be music-controlled.
5) Time Fader: Vary the time between the steps with this fader.
6) Speed Fader: Use this fader to control the speed of the mirror movement
7) Display
8) Pause-button: When you press pause during the movement of the mirrors, the display will read H and the mirrors will stop, but the lamp keeps burning. When you press pause again, the mirrors start moving.

Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

The Showtec Dance Cube requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe glass clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.
The cooling-fans and the internal lenses should be cleaned monthly with a soft brush.
Please clean internal components once a year with a light brush and vacuum cleaner.
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Changing the Lamp

1. Loosen the 8 screws on the housing. Gently remove the metal housing.
2. Loosen the screw on top of the lamp and the power connection.
3. Loosen the 4 screws on the side of the housing.
4. Slide the glass cover to the right side.
5. Slide the rubber (**6**) and metal (**7**) cover to the right side.
8. Loosen the screw of the lamp and the power connection.

Troubleshooting

No Light

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the light effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas: the power supply, the lamp, the fuse.

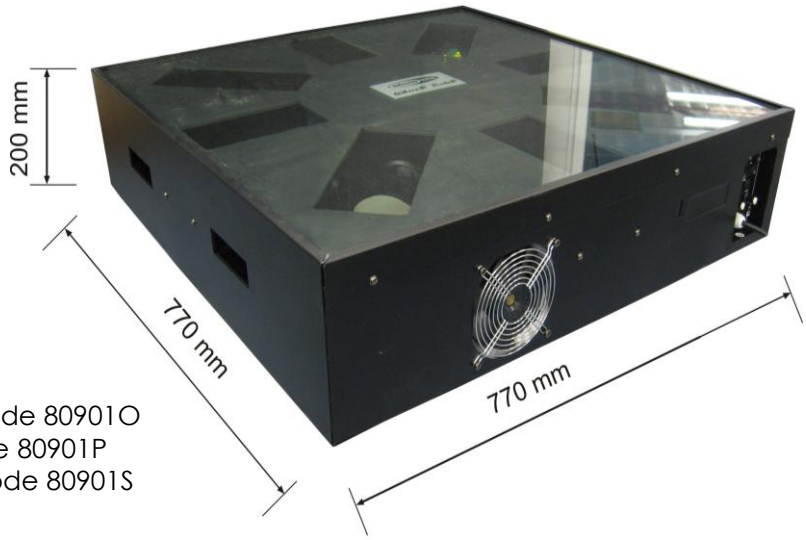
1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The lamp. Replace the old lamp with a new one with the same specifications.
See page 6 for replacing lamps.
3. The internal fuse. Return the device to your dealer. Do not open the device.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	·Check that power is switched on and cables are plugged in.
	Fuse blown.	·Return the Dance Cube to your dealer.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	·Connect controller.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	·Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	·Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	One of the fixtures is defective and disturbs data transmission on the link.	·Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. ·Have the defective fixture serviced by a qualified technician.
No light	The power supply settings do not match local AC voltage and frequency.	·Disconnect fixture. Check settings (page 8) and correct if necessary.
	Lamp missing or blown	·Disconnect fixture and replace lamp.
Lamp cuts out intermittently.	Fixture is too hot.	·Allow fixture to cool. ·Clean fan. ·Make sure air vents at control panel and front lens are not blocked. ·Turn up the air conditioning.
	The power supply settings do not match local AC voltage and frequency.	·Disconnect fixture. Check settings (page 8) and correct if necessary.

Product Specification

Model: Showtec Dance Cube
Voltage: 240V-50Hz (CE)
Fuse F10A / 250V
Dimensions: 770 x 770 x 200 mm (LxWxH)
Weight: 57 kg



Operation and Programming

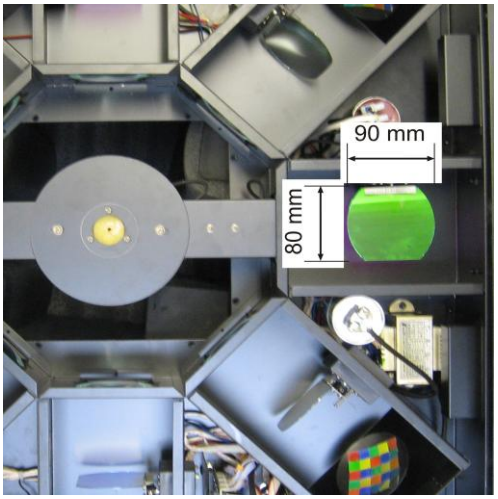
Set Up: Control Panel

Lamp

Allowed lamp models*:
Osram HMI 575 (1000 hr; 6000°K) ordercode 80901O
Philips HMI 575 (1000hr; 5600K) ordercode 80901P
Sylvania HMI 575 (1000hr; 5600K) ordercode 80901S

Minimum distance:

Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 2m



*: Versions for other lamps may be produced. Please check the specification label on your product.

Design and product specifications are subject to change without prior notice.

CE

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HIGHLITE INTERNATIONAL BV

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